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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/891,038	06/25/2001	Matthias Wandel	555255012248	9468	
7:	7590 11/15/2005			EXAMINER	
Joseph M. Sauer, Esq. Jones, Day, Reavis & Pogue North Point 901 Lakeside Avenue Cleveland, OH 44114			BENGZON, GREG C		
			ART UNIT	PAPER NUMBER	
			2144		
			DATE MAILED: 11/15/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/891,038	WANDEL ET AL.			
Office Action Summary	Examiner	Art Unit			
	Greg Bengzon	2144			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim till apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONED	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).			
Status					
2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowant	Responsive to communication(s) filed on <u>03 October 2005</u> . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims		•			
 4) ☐ Claim(s) 67-80 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 67-80 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner 9) The specification is objected to by the Examiner 10) The oath or declaration is objected to by the Examiner 11)	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P. 6) Other:				

Application/Control Number: 09/891,038

Art Unit: 2144

DETAILED ACTION

This application has been examined. Claims 1-66 have been cancelled. Claims 67-80 have been submitted as new Claims and are pending.

Priority

This application claims benefits of priority from application 60/214080 filed on June 27, 2000.

The effective date of the claims in this application is June 27, 2000.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/03/2005 has been entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 71 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant

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regards as the invention. Claim 71 recites a limitation 'wherein the local-area wireless communication system operates within an office'. The term 'office' is not clearly defined in the Applicant's Specifications.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 67-71 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee (US Patent 6535493), in view of Magret et al. (US Patent 6804221) hereinafter referred to as Magret.

Lee disclosed of a communication protocol for critical on-site communications for mobile units using base stations connected to a LAN. Initially, the process of FIG. 8 checks whether it has received a packet from a wired network such as from the Ethernet network in step 422. If not, the process is idled at step 422 until a packet has been received from the wired network. From step 422, the process of FIG. 8 checks whether the requesting packet is an ARP request in step 424. If so, the process of FIG. 8 further checks whether or not the current AP is acting as a home agent in step 428. If the AP is not acting as home agent, the process loops back to step 422 to

repeat the incoming packet routing process. Alternatively, if the current AP is acting as the home agent in step 428, a proxy ARP response is sent in step 430.

Lee disclosed (re. Claim 67) a plurality of local base stations coupled to a local area network (LAN), the local base stations being configured to send and receive data over the LAN and to communicate wirelessly with the plurality of mobile devices (Lee - Column 4 Lines 15-60); the plurality of local base stations each having a network address on the LAN and are configured to send and receive data over the LAN using the network addresses (Lee - Column 4 Lines 15-60); a subscription server operating on the LAN that is configured to identify the local base stations covering one or more of the mobile devices, the subscription server enabling the local-area wireless communication system to locate mobile devices that are in communication with the local-area wireless communication system (Lee - Figures 4 thru 6, Column 9 Lines 10-65);

However, Lee did not disclose (re. Claim 67) each local base station being configured to maintain a routing cache based on communications received from other local base stations, the routing cache identifying which of the plurality of local base stations were last in contact with mobile devices from which the communications were initiated; and each local base station being further configured to route an outgoing communication directed to a particular mobile device through a different local base station using the routing cache without requiring the local base station to access the subscription server. Lee did not disclose (re. Claim 69) wherein each local base station

includes a subscription list that identifies the mobile devices currently covered by the identified base station. Lee did not disclose (re. Claim 70) wherein the local base stations are configured to purge from the route cache data relating to any mobile device to which the local base station has not been in communication for a predefined interval of time.

Magret disclosed (re. Claim 67) each local base station being configured to maintain a routing cache (Magret – Column 9 Lines 25-35, Column 16 Lines 20-35) based on communications received from other local base stations, the routing cache identifying which of the plurality of local base stations were last in contact with mobile devices from which the communications were initiated; and each local base station being further configured to route an outgoing communication directed to a particular mobile device through a different local base station using the routing cache without requiring the local base station to access the subscription server (Magret – Column 8 Lines 15-20). Magret disclosed (re. Claim 69) wherein each local base station includes a subscription list that identifies the mobile devices currently covered by the identified base station (Magret – Column 9 Lines 25-35, Column 16 Lines 20-35). Magret disclosed (re. Claim 70) wherein the local base stations are configured to purge from the route cache data relating to any mobile device to which the local base station has

not been in communication for a predefined interval of time. (Magret – Column 17 Lines 20-35)

Lee and Magret are analogous art because they present concepts and practices regarding the registration of mobile nodes and routing packets to and from mobile nodes in both home and foreign domains. At the time of the invention it would have been obvious to combine the teachings of Magret regarding a routing cache in the base station. The motivation for said combination would have been, as Magret suggests (Magret – Column 7 Lines 25-30), to enable mobility while supporting a 'make before break scheme', which is essential for voice over IP applications.

Lee disclosed (re. Claim 68) wherein the subscription server also logs subscription information for one or more of the mobile devices (Lee - Figures 4 thru 6, Column 9 Lines 10-65); (re. Claim 71) wherein the local-area wireless communication system operates within an office. (Lee - Column 4 Lines 15-30)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 72-80 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee (US Patent 6535493) in view of Magret et al. (US Patent 6804221) hereinafter referred to as Magret, further in view of Lazaridis et al. (US Patent 6219694), hereinafter referred to as Lazaridis.

The combination of Lee and Magret did not disclose (re. Claim 72,73, 76, 77, 80) a redirector a redirector configured to interface the local-area wireless communication system with a widearea wireless network. The combination of Lee and Magret did not disclose (re. Claim 80) wherein the redirector is further configured to forward electronic mail messages from the mail server to the mobile devices.

Lazaridis disclosed (re. Claim 72,73 , 76, 77, 80) a redirector a redirector configured to interface the local-area wireless communication system with a wide area wireless network (Lazaridis - Column 8 Lines 30-55, Column 11 Lines 25-45); (re. Claim 73) routing the outgoing communication to the redirector if the identified mobile device is not currently in communication with the local-area wireless communication system (Lazaridis – Column 7 Lines 15-20); (re. Claim 77,80) wherein the redirector is further configured to forward electronic mail messages from the mail server to the mobile devices. (Lazaridis - Column 10 Lines 50-65)

Lee, Magret and Lazaridis are analogous art because they present concepts and practices regarding communication systems for mobile communication devices involving text and voice data over a LAN. At the time of the invention it would have been obvious to a person of ordinary skill in the art to combine the teachings of Lazaridis regarding 1) the redirector software into the combined system of Lee and Magret. The suggested motivation would have been, as Lazaridis suggests, to overcome the bandwidth limitations in wireless networks and implement the practice of 'pushing data' to the mobile user in order to facilitate timely responses to critical or emergency communications. Due to the bandwidth limitations of wireless networks, only a portion of a data item is generally redirected to the user's mobile device, with the user given the option of then retrieving the entire data item (or some other portion of the data item) from the host system. Without the implementing the push a mobile user may fail to respond to an emergency updates, requests, meeting notifications, and news bulletins because the user only periodically checks for updates and stored messages.

The combination of Lee and Magret disclosed (re. Claim 72) the plurality of local base stations being further configured to: determine if an identified mobile device is currently in communication with the local-area wireless communication system when an outgoing communication is directed to the mobile device (Lee – Column 6 Lines 25-35); routing the outgoing communication to the identified mobile device over the local area wireless communication system if the identified mobile device is currently in

communication with the local-area wireless communication system (Lee – Column 6 Lines 20-25); (re. Claim 73) whereby mobile devices are able to send and receive data while roaming between the wide-area wireless network and the local-area wireless communication system (Lee - Column 5 Lines 1-65); (re. Claim 74) wherein the plurality of mobile devices use a wide-area wireless network protocol to communicate over both the local-area wireless communication system and the wide area wireless network (Lee - Column 5 Lines 1-65)

The combination of Lee and Magret disclosed (re. Claim 75) wherein the plurality of local base stations each have a network address on the LAN and are configured to send and receive data over the LAN using the network addresses, and wherein the data received from a mobile device using the wide-area wireless network protocol is tunneled through the LAN using the network address for a local base station (Lee - (Column 5 Lines 25-35); (re. Claim 78) wherein the mobile devices transmit and receive electronic mail messages over the local-area wireless communication system and the wide-area wireless network (Lee - Column 5 Lines 1-65); (re. Claim 79) wherein the mobile devices transmit and receive voice communications over the local-area wireless communication system and the wide-area wireless network (Lee - Column 5 Lines 1-65).

Response to Arguments

Applicant's arguments have been considered but are moot in view of Claims 1-66 being cancelled, and new ground(s) of rejection presented for Claims 67-80.

Conclusion

Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant.

Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

In the case of amending the claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Greg Bengzon whose telephone number is (571) 272-3944. The examiner can normally be reached on Mon. thru Fri. 8 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on (571)272-3923. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

gcb

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